

Recombinant Mouse Il13 protein

Cat. No. II13-629M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Il13 protein was expressed in Escherichia coli.

Species Mouse

Source E.coli

ProteinLength 111

Description Murine Interleukin-13 (IL-13) is expressed by the IL13 gene located on the chromosome 11 and secreted by many cell types, especially T helper type 2 (Th2) cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 has been implicated as a key factor in asthma, allergy, atopy and inflammatory response, establishing the protein as a valuable therapeutic target. Human, mouse and rat IL-3 share low homology, but have cross species activity.

Form Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.

Bio-activity Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 4 ng/ml, corresponding to a specific activity of $> 2.5 \times 10^5$ IU/mg.

Molecular Mass Approximately 12.3 kDa, a single non-glycosylated polypeptide chain containing 111 amino acids.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MPVPRSVSLPLTLKELIEELSNITQDQTPLCNGSMVWSVDLAAGGFCVALDSL TNISN CNAIYRTQRILHGLCNRKAPTTVSSLPDTKIEVAHFITKLLSYTKQLFRHGPF
Endotoxin	Less than 1 EU/g of rMuL-13 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL13
Official Symbol	IL13
Synonyms	IL13; interleukin 13; interleukin-13; T-cell activation protein P600; IL-13;
Gene ID	16163
mRNA Refseq	NM_008355
Protein Refseq	NP_032381

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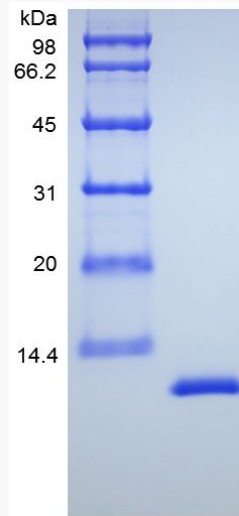
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UniProt ID

P20109

SDS-PAGE of II13-629M



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